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AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the

application:

<u>LISTING OF CLAIMS</u>:

1 to 19. (Cancelled)

20. (Currently Amended) A front-end circuit comprising:

a first signal path comprising a first filter;

a second signal path comprising a second filter;

a switch having an output connected to inputs of the first and second signal paths;

and

an input circuit to provide signals to the switch, the input circuit comprising an

antenna connector;

wherein outputs of the first and second signal paths are connected in an

impedance-neutral manner to form a shared output signal path;

wherein (i) the first filter has a high output impedance in a pass band of the

second filter or the second filter has a high output impedance in a pass band of the first

filter, or (ii) the front-end circuit further comprises impedance-matching circuitry on an

output side of the front-end circuit, the impedance-matching circuitry for matching output

impedances of the first and second signal paths; and

wherein the front-end circuit is usable with a multi-band transmission system or

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multi-band/multi-mode transmission system.

21. (Currently Amended) The front-end circuit of claim 20, further comprising:

a further switch located in at least one of the first and second signal paths.

22. (Currently Amended) The front-end circuit of claim 20,

wherein the first signal path comprises a first reception path assigned to a first

mobile radio system and a first radiofrequency band; and

wherein the second signal path comprises a second reception path assigned to a

second mobile radio system and a second radiofrequency band.

23. (Currently Amended) The front-end circuit of claim 22, further comprising:

a diode circuit to enhance isolation of the first and second signal paths, the diode

circuit being arranged in the shared output path, the diode circuit for rejecting signals in

at least one rejection band, the diode circuit comprising diodes connected in shunt or in

series.

24. (Currently Amended) The front-end circuit of claim 23, wherein the at least

one rejection band comprises (i) a frequency range in which a receive band of the first

signal path overlaps, at least partly, with a transmit band of the second signal path, or (ii)

a frequency range in which a receive band of the second signal path overlaps, at least

partly, with a transmit band of the first signal path.

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25. (Currently Amended) A front-end circuit comprising:

a first signal path comprising a first filter;

a second signal path comprising a second filter;

a third signal path comprising a third filter;

a switch having an output connected to inputs of the first, second and third signal

paths; and

an input circuit to provide signals to an input of the switch, the input circuit

comprising an antenna connector and a diplexer;

wherein the first signal path is associated with a first mobile radio system that

uses Frequency Division Multiple Access (FDMA) and Frequency Division Duplex

(FDD) processes, the first mobile radio system being configured for continuous wave

transmission;

wherein the first signal path comprises a duplexer, the duplexer comprising a

transmit part and a receive part, the switch being between the diplexer and the transmit

part;

wherein the second signal path is assigned to a second mobile radio system that

uses a Time Division Multiple Access (TDMA) process, and the third signal path is

assigned to a third mobile radio system that uses a Time Division Duplex (TDD) process;

wherein the front-end circuit is usable with a multi-band transmission system or

multi-band/multi-mode transmission system; and

wherein components of the front-end circuit are arranged in a common module.

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26. (Currently Amended) The front-end circuit of claim 25, wherein the switch is

between the diplexer and the receive part of the duplexer.

27. (Currently Amended) The front-end circuit of claim 25, wherein the receive

part of the duplexer is connected in an impedance-neutral manner between the diplexer

and the switch; and

wherein the front-end circuit further comprises a monitoring circuit which

supports monitoring a signal received via the first mobile radio system in an operating

mode of at least one of the first and second mobile radio systems.

28. (Currently Amended) The front-end circuit of claim 25, wherein the second

mobile radio system is a multi-band system.

29. (Currently Amended) A front-end circuit comprising:

a first signal path connected to an input, the first signal path comprising a first

impedance transformation network and a first filter, the first impedance transformation

network being between the input and the first filter;

a second signal path connected to the input, the second signal path comprising a

second impedance transformation network and a second filter, the second impedance

transformation network being between the input and the second filter;

an antenna connector at the input;

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a parallel branch connected to the first signal path at an electrical node between the first impedance transformation network and the first filter, the parallel branch comprising a switch for blocking the first signal path in a rejection band of the first signal path;

wherein the front-end circuit is usable with a multi-band transmission system or multi-band/multi-mode transmission system.

- 30. (Currently Amended) The front-end circuit of claim 29, wherein the switch comprises a pin diode, a GaAs switch, or a MEMS switch.
 - 31. (Currently Amended) The front-end circuit of claim 29, further comprising: a matching network located between the parallel branch and the first filter.
- 32. (Currently Amended) The front-end circuit according to claim 29, wherein the parallel branch comprises:
 - a DC path,

a series circuit comprising a pin diode and an inductor in series with the pin diode, the series circuit being in the DC path;

a capacitor connected in parallel with the inductor and in series with the pin diode; and

a series resonance circuit comprising the capacitor and the pin diode when enabled, a resonance frequency of the series resonance circuit being located in the

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rejection band.

33. (Currently Amended) The front-end circuit of claim 29, which is constructed

on a carrier substrate.

34. (Currently Amended) The front-end circuit of claim 33, wherein the carrier

substrate comprises metallization layers, the metallization layers being separated by

dielectric layers; and

wherein metallization layers comprise at least one of the impedance

transformation network, the matching network, the inductor, and the capacitor.

35. (Currently Amended) The front-end circuit of claim 29, wherein the first and

second filters comprises at least one of elements operating with acoustic surfaces waves,

elements operating with bulk waves, ceramic microwave elements, and chip LC

elements.

36. (Currently Amended) The front-end circuit of claim 29, wherein the switch

comprises a GaAs switch or a MEMS switch.

37. (Currently Amended) The front-end circuit of claim 29, wherein components

of the front-end circuit that are directly connected are electrically interconnected via

transmission lines; and

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wherein all components of the front-end circuit and the transmission lines are integrated in a module comprising a carrier substrate.

38. (Currently Amended) The front-end circuit of claim 37, wherein the transmission lines comprise line sections in at least one of metallized layer of the carrier substrate.

39. (New) The front-end circuit of claim 29, further comprising:

a further parallel branch connected to the second signal path at an electrical node between the second impedance transformation network and the second filter, the further parallel branch comprising a switch for blocking the second signal path in a rejection band of the second signal path.

- 40. (New) The front-end circuit of claim 20, wherein all components of the front-end circuit are integrated in a common front-end module.
- 41. (New) The front-end circuit of claim 20, wherein the impedance-matching circuitry is in the first signal path, the impedance-matching circuitry for making an output impedance of the first signal path be high in a pass band of the second signal path; or

wherein the impedance-matching circuitry is in the second signal path, the output circuitry for making an output impedance of the second signal path be high in a pass

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band of the first signal path.

42. (New) The front-end circuit of claim 20, further comprising: output circuitry located in the shared output signal path.

43. (New) The front-end circuit of claim 20, further comprising:

a parallel branch connected to the output of at least one of the first and second signal paths; and

output circuitry in the parallel branch.

44. (New) The front-end circuit of claim 21, wherein the further switch is located in the first signal path between the antenna connector and the first filter; or wherein the further switch is located in the second signal path between the antenna connector and the second filter.

45. (New) The front-end circuit of claim 21, wherein the further switch is located in the first signal path, the first filter being located between the antenna connector and the further switch; or

wherein the further switch is located in the second signal path, the second filter being located between the antenna connector and the further switch.

46. (New) The front-end circuit of claim 20, further comprising:

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a further switch located in the shared output signal path.

47. (New) The front-end circuit of claim 43, further comprising:

output circuitry comprising a further switch, the output circuitry being located in the shared output signal path.

48. (New) The front-end circuit of claim 22, further comprising:

a diode circuit to enhance isolation of the first and second signal paths, the diode circuit being in at least one of the first reception path and the second reception path, the diode circuit for rejecting signals in at least one rejection band of a signal path, the diode circuit comprising diodes connected in shunt or in series;

wherein the diode circuit is between the antenna connector and the filter of the first or second signal paths.

- 49. (Currently Amended) The front-end circuit of claim 48, wherein the at least one rejection band comprises (i) a frequency range in which a receive band of the first signal path overlaps, at least partly, with a transmit band of the second signal path, or (ii) a frequency range in which a receive band of the second signal path overlaps, at least partly, with a transmit band of the first signal path.
 - 50. (New) The front-end circuit of claim 22, further comprising: a diode circuit to enhance isolation of signal paths, the diode circuit being in at

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least one of the first reception path and the second reception path, the diode circuit for rejecting signals in at least one rejection band of a signal path, the diode circuit comprising diodes connected in shunt or in series;

wherein a filter in the first or second signal path is between the antenna connector and the diode circuit.

51. (Currently Amended) The front-end circuit of claim 50, wherein the at least one rejection band comprises (i) a frequency range in which a receive band of the first signal path overlaps, at least partly, with a transmit band of the second signal path, or (ii) a frequency range in which a receive band of the second signal path overlaps, at least partly, with a transmit band of the first signal path.